International application No.

PCT/AU2003/001734

#### A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: C07D 409/12, 333/70, 277/36; C07C 323/63, 323/22, 233/11, 69/618, 63/66, 57/42; A61K 31/381, 31/41, 31/192, 31/165, 31/4166, 31/12; A61P 37/00

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

C.

Minimum documentation searched (classification system followed by classification symbols) IPC: C07D, C07C, A61K AND KEYWORDS AS INDICATED BELOW

DOCUMENTS CONSIDERED TO BE RELEVANT

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Questel: Database WPAT and Keywords: FC Receptor, FCR, autoimmune, rheumatoid arthritis, lupus, Crohn+, +rhodanin+; STN Substructure search based on selected exemplified compounds & Formula II; Molecular Formula Search based on Formula V; Files CA, Medline and Keywords: FC receptor, benzothiophen?, benzoic acid

Cate	egory*	Citation of document, with indication,	•	Relevant to claim No.				
	WO 2000/015214 A (ILEXUS PTY LIMITED) 23 March 2000							
	X	See especially page 21 and compo	unds at	pages 25-31	7, 11-13			
		Current Opinion in Immunology, Vare major mediators of antibody ba						
x		See especially Conclusions, page 8	1-13					
. ;	x	WO 1995/015323 A (WARNER-LAMBERT COMPANY) 8 June 1995 See especially page 1, lines 20-21, Formula V at page 4						
X Further documents are listed in the continuation of Box C X See patent family annex								
*	Special c	ategories of cited documents:						
"A"	which is	t defining the general state of the art	"T"	later document published after the international filing dat	te or priority date			
	which is not considered to be of particular relevance			and not in conflict with the application but cited to understand the principle				
"E"				or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step				
"Ľů	TOTAL WINON HELY MILLOW GOUDES OU DELIGHTO		"Y"	hen the document is taken alone				
	claim(s) or which is cited to establish the			"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined				
publication date of another citation or other special reason (as specified)			with one or more other such documents, such combination being obvious					
"O"	document referring to an oral disclosure, use,			a person skilled in the art document member of the same patent family				
	exhibition	bition or other means						
"P" document published prior to the international filing date but later than the priority date claimed								
Date of the actual completion of the international search  Date of mailing of the international search report								
10 March 2004				·				
Name a	Name and mailing address of the ISA/AU			2 5 MAR 2004 Authorized officer				
		ATENT OFFICE	William Office	.				
PO BOX 200, WODEN ACT 2606, AUSTRALIA				Dr. Doormi	.			
E-mail address: pct@ipaustralia.gov.au				R.L. POOLEY				

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International application No.

PCT/AU2003/001734

C (Continuat	ion). DOCIMENTS CONSIDERED TO BE DEVENANT	37001734				
<del></del>	10.02.2.3.3.1.1.1					
Category*	Citation of document, with indication, where appropriate, of the relevant passages					
	(Remove spaces when completed if the page is too long)	claim No.				
v	WO 1995/002406 A (WARNER-LAMBERT COMPANY) 26 January 1995					
X	See especially page 1 and Example					
	EP 920862 A (ELI LILLY AND COMPANY) 9 June 1999					
х	See especially page 4 line 25					
	See especially page 4 line 25					
	Aldrich Catalogue Handbook of Fine Chemicals 1996-1997, Aldrich Chemical Co.	1				
	Inc., 2/14 Anella Ave., Castle hill NSW 2154, Australia, page 384					
X	See Cinnamamide and Cinnamic acid enties					
•		1,2				
x	EP 211670 B (ELI LILLY AND COMPANY) 9 May 1990 See especially page 2, Example 1					
Λ.						
P, X	Derwent Abstract Accession No. 2003-821289/77, Class B03, JP 2003252794 A (ONO					
-,	PHARM CO LTD) 9 October 2003	5, 6				
		1				
	EP 434394 B (ELI LILLY AND COMPANY) 5 August 1998					
X	See especially compounds at pages 7-8	5,6				
ł	TID FOOTION A CITY TAX TO THE TAX					
<b>x</b> .	EP 722729 A (ELI LILLY AND COMPANY) 24 July 1996	5,6				
<b>A</b> .	See especially compounds at pages 4-5					
•	US 3869553 A (HOLLAND) 4 March 1975					
х	See especially claim 5					
		3,4				
	WO 2002/042289 A (ELI LILLY AND COMPANY) 30 May 2002					
· X	See compounds of Formula II, Page 4					
	W/O 2001/025102 A OTTO DOLL GOD A GO TOTAL GO					
х	WO 2001/025193 A (NIPPON SODA CO. LTD) 12 April 2001 See compounds at pages 5-11					
^						
P,X	Derwent Abstract Accession No. 2003-473339/45, Class B05, C03, JP 2003055340 A					
	(DAIKIN KOGYO KK) 26 February 2003	.3,4				
	DE 3532280 A (BAYER AG) 12 March 1987					
х	See compounds of Formula I	3,4				
	RE 854857 & (SERDEY COCIETE DIETH DES DE DECUEDARES DE					
	BE 854857 A (SERDEX - SOCIETE D'ETUDES, DE RECHERCHES, DE DIFFUSION ET D'EXPLOITATION) 21 November 1977					
x	See compounds of Formula I	3,4				
		3,4				
_: .	EP 621255 B (ADIR ET COMPAGNIE) 20 August 1997	1				
x	See especially page 12	3,4				
		i				
İ						
	·	1				

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Box I	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1.	Claims Nos :				
	because they relate to subject matter not required to be searched by this Authority, namely:				
2.	X Claims Nos: 1 to 6, 13				
	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
	An initial scan of the prior art revealed a large number of potential citations disclosing compounds encompassed by claims 1 to 6. For example, claims 1 and 2 encompass such common compounds as cinnamic acid. Additionally, claim 13 encompasses an indeterminate range of compounds. Accordingly for economic reasons, only a restricted search has been undertaken in relation to these claims.				
3.	Claims Nos:				
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)				
Box II	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:				
•					
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims				
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
Remark	on Protest The additional search fees were accompanied by the applicant's protest.				
	No protest accompanied the payment of additional search fees.				

Information on patent family members ·

International application No. PCT/AU2003/001734

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Pater	Patent Document Cited in Search Report		Patent Family Member				
wo	2000/015214	AU	57544/99	CA	2343414	CN	1323203
	•	EP	1109545	JP	2002524504	US	6355683
wo	1995/015323	ΑU	21852/95	CA	2172382	EP	731800
		NZ	2908707	US	5426191	US	5608074
wo	1995/002406	AU	73961/94	CA	2163542	EP	789569
EP	920862	ΑU	13861/99	CA	. 2309859	CN	1109683
		JР	2001523676	US	6395769	WO	1999/025707
EP	211670	AU	52934/90	AU	60972/86	CA	2013599
		CN	1014891	DE	3670951	EP	391644
		JP	2290862	JР	62042977	RU	2014329
		US	5356917	US	5691367		
JР	2003252794			•			
EP	434394	AU	68266/90	CA	2032330	CN	1029846
	•	DE	69032537	EP	434394	. <b>JP</b>	3036853
		JΡ	4279573	RU	2036915	RU	2050355
		US	5216002	US	5387690		
EP	722729	· AU	47038/96	CA	2210566	JР	10512883
		US	5731336	wo	1996/022772		
US	3869553	US	3855285	US	3856951	US	3882230
		·US	3953595				
wo	2002/042289	ΑU	30409/02	•			
WO	2001/025193	ΑU	75555/00	CN.	1377340	EP	1219598
JР	2003055340						
DE	3532280						
BE	854857	FR	2351937	GB	1542305		
EP	621255	AU	60533/94	CA	2121571	DE	69405036
		FR	2704224	<b>ЛР</b>	6340580	US	5512595
		US	5627205		•		
							END OF ANNEX

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